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FINDING OF IMMINENT AND SUBSTANTIAL ENDANGERMENT

Ferrell Gas Chlorine Cylinder Site 1206 Southwest Market St, Lee's Summit, MO 64081

Based on the factors outlined below, I have determined that a threat exists to the public health or welfare or the environment at this site/incident. An imminent and substantial endangerment to the public health or welfare or the environment exists because of an actual or threatened release of a hazardous substance at or from the site/incident.

I. SITE INFORMATION

Site Name: Ferrell Gas Chlorine Cylinder Site

Site Number: YB

Site Location: 1206 Southwest Market St

Lee's Summit, MO 64081

Potentially Responsible Party:

Ferrell Gas Company 1775 NE Chouteau Trfwy Kansas City, MO 64120 (816) 468-7700

Access: ___ Restricted _X' Unrestricted

NPL Status: Not on nor proposed for inclusion to NPL

Removal Start Date: 04/10/97

II. THREAT TO THE PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT

A. Site Background (attach ERNS or trip report or provide date of initial notification, name of notifier, amount and substance released. Document identity of property owner, cause of release and interviews, including contact names, addresses, phone numbers):

Request for assistance from Mr. Norm Brown, MDNR, was received by EPA at 1610 hrs, April 10, 1997 (see attached ERNS report #04107-DH-1610).



A leaking chlorine gas cylinder was abandoned on Ferrell Gas' property at the address mentioned above. Representatives from the company indicated the cylinder was abandoned by an unknown party and that the company does not produce/distribute chlorine products and did not have the expertise to safely handle or dispose of the cylinder. EPA OSC spoke with the following company representatives during the incident:

Mr. Ross Warnell
Technical Standards
and Process Mgr
(816) 792-6998

Mr. David Webb
Facility Manager
(816) 792-6920
(816) 356-0415

Mr. James Helgason, MDNR representative, (816) 554-4100 and Mr. Gary Trigg from Lee's Summit Fire Department (816) 251-2350 were on the scene.

B. Hazardous Substances Present (describe container/material - attach drums sheets if available):

A single chlorine gas cylinder (approximately 100 lbs) was abandoned at the site. The cylinder was leaking at the valve assembly and due to its deterioration the release could not be secured. The cylinder did not adhere to industry standards for size and dimension. Due to the unusual dimensions of the cylinder, a standard Class A chlorine kit could not be used by the Lee's Summit Fire Department to secure the cylinder.

C. Nature of Actual or Threatened Release of Hazardous Substance (e.g., drum of unknown materials, leaking drum, unknown material in soil, unlimited site access, etc.):

Mr. Helgason, MDNR's representative, confirmed the chlorine gas release by using ammonia vapors and Drager tubes. In addition, every 3 to 5 seconds a bubble was observed forming around the valve assembly.

The cylinder was located in an unrestricted area near residential properties. The valve assembly on the cylinder had severely deteriorated. Exposure of the leaking chlorine gas to adverse weather conditions could produce a hydrochloric acid solution which would accelerate the deterioration of the valve assembly until it completely failed and a catastrophic release occurred.

Check applicable factors (from 40 CFR 300.415) which were considered in determining the appropriateness of a removal action:

X Actual or potential exposure to nearby human populations, animals or the food chain from hazardous substances or pollutants or contaminants [300.415(b)(2)(I)].

Actual or potential contamination of drinking water supplies or sensitive ecosystems [300.415(b)(2)(ii)].

| | Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bull containers, that pose a threat of release [300.415(b)(2)(iii)]. |
|---------------|--|
| —— near th | High levels of hazardous substances or pollutants or contaminants in soils largely at or e surface, that may migrate [300.415(b)(2)(iv)] |
| | Weather conditions that may cause hazardous substances or pollutants or contaminants to or be released [300.415(b)(2)(v)]. |
| | Threat of fire or explosion [300.415(b)(2)(vi)]. |
| | The availability of other appropriate Federal or State response mechanisms to respond to ease [300.415(b)(2)(vii)]. |
| | Other situations or factors that may pose threats to the public health or welfare or the ment [300.415(b)(viii)]. |

III. SELECTED REMOVAL ACTION (attach POLREPS, ERCS delivery order or describe disposal arrangements, treatment, identification of hazardous substances, security arrangements, etc.)

Due to the proximity to residential properties, the EPA OSC directed that the cylinder be removed from the site. The Lee's Summit Fire Department placed the cylinder in an overpack drum and the OSC transported it to a secure EPA facility.

On 4/11/97, Mr. Jack Ahern of the Chlorine Institute, (202) 872-4723, was contacted for assistance. Mr. Ahern recommended contacting Vulcan Chemical Company which is the regional representative to the Chlorine Institute. Mr. Tracy Winter from Vulcan Chemical Company, (316) 529-7216, provided the name for a response contractor his company uses for chlorine releases. Mr. Winter highly recommended the contractor due to the nonstandard dimensions of the cylinder and the potential for an ongoing release since the cylinder was not secure in an appropriate recovery vessel.

Environmental Management Inc. (EMI), from Gutherie, OK, was selected as the response contractor for this incident. EMI is the Chlorine Institute's response contractor for this region of the country. EMI has the technical expertise and specialized equipment necessary to recover and dispose of chlorine cylinders of various sizes and dimensions.

EMI mobilized on 4/11/97 to Dodge Warehouse in Kansas City where the cylinder was secured by the OSC. The cylinder was placed in a recovery vessel and transported to EMI's facility in Gutherie, OK for disposal.

IV. ESTIMATED COSTS

Extramural Costs

| Regional Removal Allowance Costs | \$ 6,000 |
|----------------------------------|------------|
| Contingency 10% | <u>600</u> |
| Subtotal, Extramural Costs | \$ 6,600 |

Intramural Costs

| Direct | \$ 1,600 |
|----------------------------|----------|
| Indirect | 3,320 |
| Subtotal, Intramural Costs | \$ 4,920 |

TOTAL, REMOVAL PROJECT CEILING \$11,520

This finding of imminent and substantial endangerment has been entered into the site or incident's administrative record.

Signature)

James E. Augustyn (Typed/Printed Name)

U.S. EPA, On-Scene Coordinator

(Title)

(Date)

(Signature)

Robert W. Jackson (Typed/Printed Name)

Chief, ER&R Branch

(Title)

(Date)

ERNS INCIDENT NOTIFICATION REPORT Regional Case Number: 04 107 - 14 - 1610 Reported (mm/dd/w): Тіте (ними): Multiple Report: [Regional Time (H-VMM): 16/10 Recorded By: MIEMON Multiple Regional Case Number: SSI Report: Through NRC: NRC Case Number: CR Number: A. REPORTER Mrm Ropus Confidentiality Requested: Reported By: Privacy Act Organization Name Tally strated Child Tenth 2 W A LA Organization: (Check One) Discharger Federal V Unknown State Public Local Phone: (553) *Address: City County State: Zφ B. DISCHARGER Same As A Organization: (Check One) Private Co. Public State Local Federal X Unknown Discharger Name: Phone: (S Contact Name: 2nd Phone: (ext Address Facility ID Number: County City: State: Zip: Same As A Street or Approx. Location: C. INCIDENT 14 Januttin Z 30 I LOCATION Same As B tarra? State: City: Minus 2 set County. Zip: Milepost: D, DATE Discovery Date (mm/dd/yy): Spill Date (mm/dd/yy): Spill Time (HH/MM): E. MATERIAL Unknown Oil | Haz Sub Other Material Type: (Check One) Material Name CHRIS Units (Cirde prija) CAS No UN DOT No Quantity Quantity In Water ib bbi dimi windle ib bbi drm gai ton oth abl dim ua Source of Spill: (Check Any) **Highway** Pipeline Railway UST Fixed Facility Other F. SOURCE Offshore Air Transport Vessel **AST** Unknown its bbi drin unk Vehicle ID or Carrier No.: Number of Tanks: Tank Units: (Circle One) Tank Capacity: del ton oth Source Description: CHO Medium Affected: (Check Any) None Land Groundwater Other G. MEDIUM Air Water Within Facility Unknown Waterway Affected: Reported Cause: (Check Any) Transportation Accident Operational Error Dumping Other H. CAUSE Equipment Failure Natural Phenomenon Unknown Cause Description: L DAMAGE None No. of Deaths No. of Injuries None Property Damage>\$50,000: J. ACTIONS Response Actions Taken: Evacuation: LOU, series. K. NOTIFIED Caller Has Notified: (Check Any) State/Local Discharger USCG Other Agency Name: L COMMENTS Comments. Additional Information (See Reverse See) M. RESPONSE Response Comments: um. Unauctua invertations. AND **EVALUATION** (Check One) Agency Name: Local State Discharger Federal EPA Other Unknown (Check One) Agency Name Local Oscharger Federal EPA Unknown State Other (Check One) Unknown Agency Name: Local Discharger Federal **EPA** State Other

REGION 7 INCIDENT NOTIFICATION REPORT Regional Case Number FOLLOW-UP Update Date: (min/dd/y) Updated By: C INCIDENT Oun & Bradstreet No.: LOCATION F. SOURCE Source Code G MEDIUM Medium Code Threat Code(s): Cause Code H. CAUSE J. ACTIONS No. of Persons Evacuated: M RESPONSE Incident Status Code: Classic Incident Critical Incident Non-Critical Incident AND (Check One) No Further Action Remedial Action Field Simulation EVALUATION Emergency Response Activity Within 24 Hours: Emergency Response Activity Date: (mn/dd/yy) Responding OSC: AUGUSTYN JIM POLREP Date: (mrvddyy) Action Memo Date: (mm/dd/yy) Action Memo Approved: Release Investigation: On-Scane Monitoring: Telephone Assistance: TDD No. Enforcement Activities: Other Follow-up Comments OSC ARRIVED ON SCENE AT APPROXIMATELY 6:00 PM. JAMES HELGISON FROM MONR AND GARY TRIGG FROM LEE SUMMIT FIRE DEPT WERE ON SCENE THE GAS CYLINDED WAS LOCATED AREA ADJIACENT TO A BUSY STREET AND RESIDENTIA OF THE PROPERI HERE BY AN UNK PARTY AND THAT THEY DID NOT ERTISE TO HANDLE IT. THE LEE SUMMIT F.D. OVERPACKED OSC TRANSPORTED IT BACK TO DODGE WHS I CONTRACTOR FOR THE CHLORINE BEEN MOBILIZED FROM GUTHRIE.OK AND DISPOSE OF ITS CONTENTS THE CYLINDED TO ARRIVE IS SCHEDULED